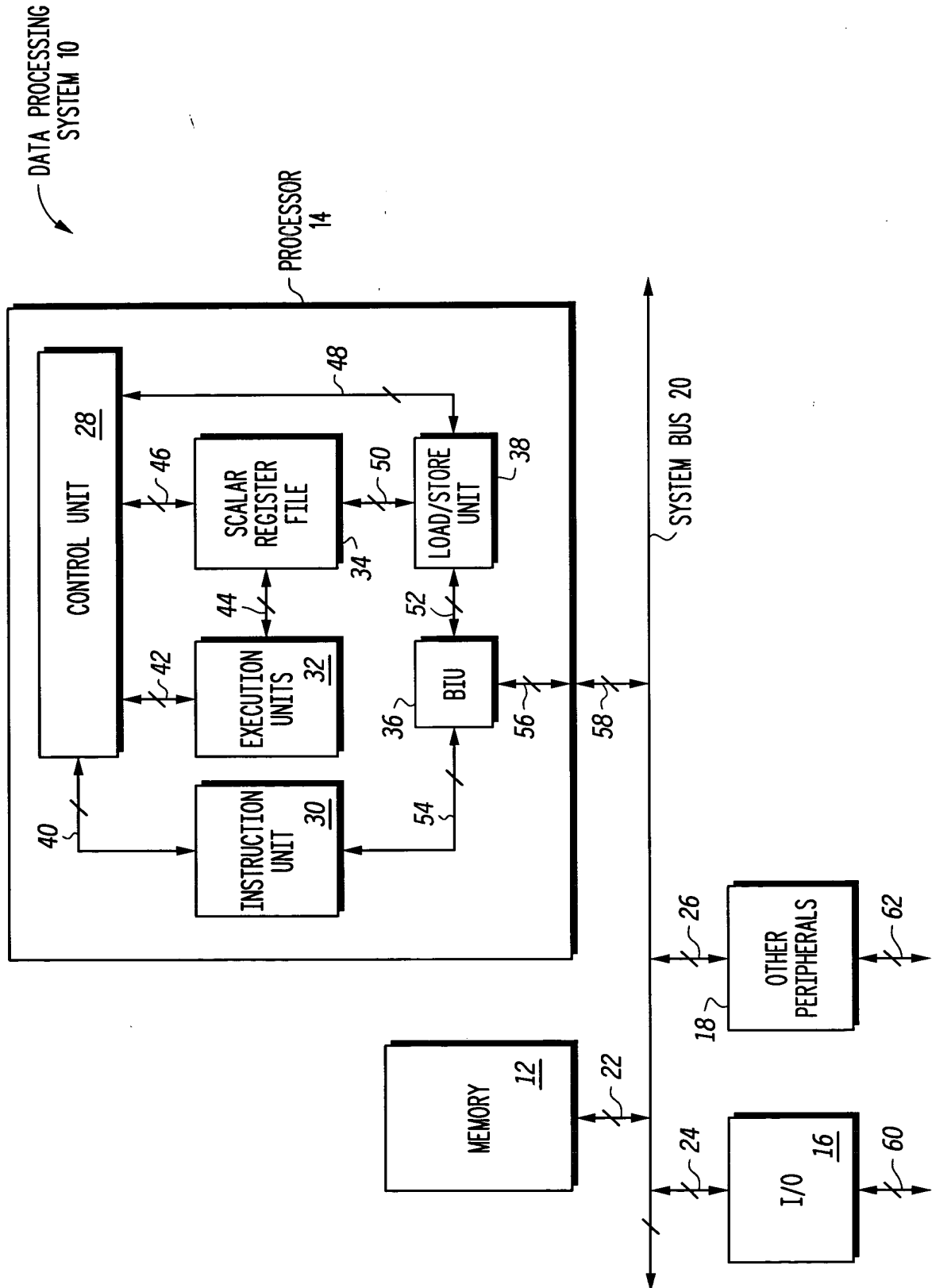


1/12



2/12

lvex.[s/u].[ms].[ds] rD, rA, rB

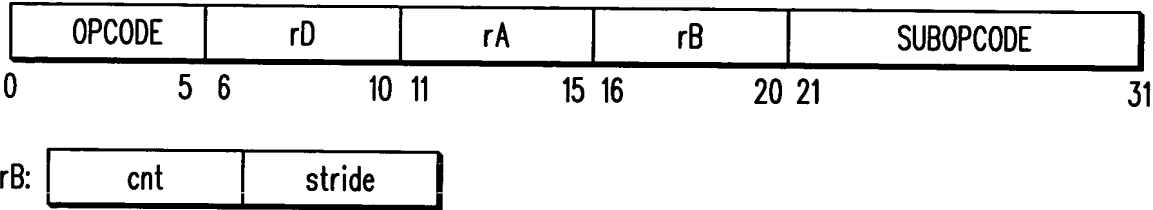


FIG. 2

lvex.[s/u].[ms].[ds] rD, rA, cnt, stride

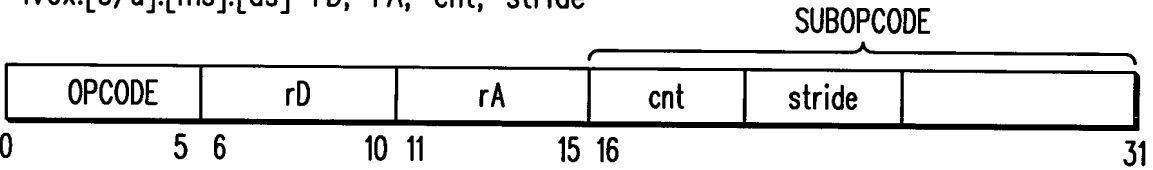


FIG. 3

lmvex.[s/u].[ms].[ds] rD, rA, rB

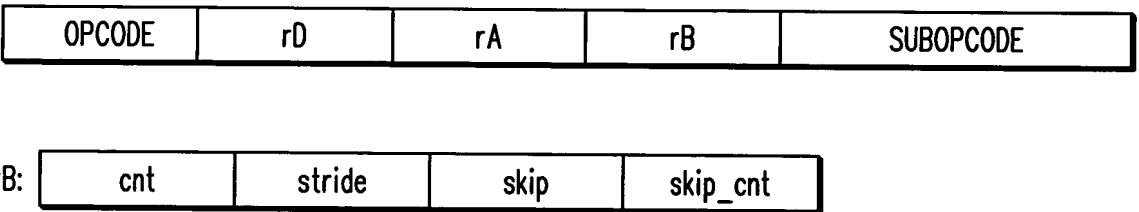


FIG. 4

lmvex.[s/u].[ms].[ds] rD, rA, cnt, stride, skip, skip\_cnt

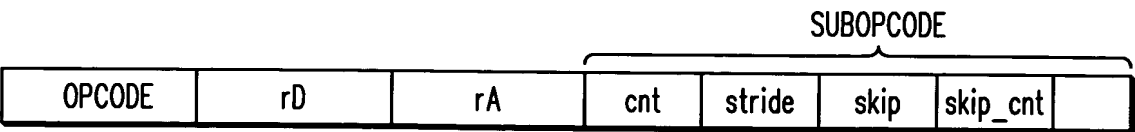


FIG. 5

┌

3/12

lmvex2.[s/u].[ms].[ds] rD, rA, rB



*FIG. 6*

lstrmvex.[s/u].[ms].[ds] rD, rA, rB



*FIG. 7*

stvex.[s/u].[ms].[ss].[h/l] rS, rA, rB



*FIG. 8*

└

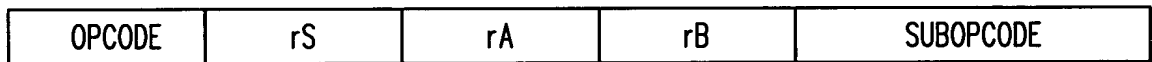
4/12

stmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB



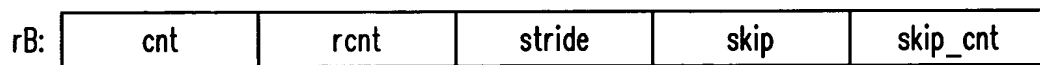
*FIG. 9*

stmvex2.[s/u].[ms].[ss].[h/l] rS, rA, rB



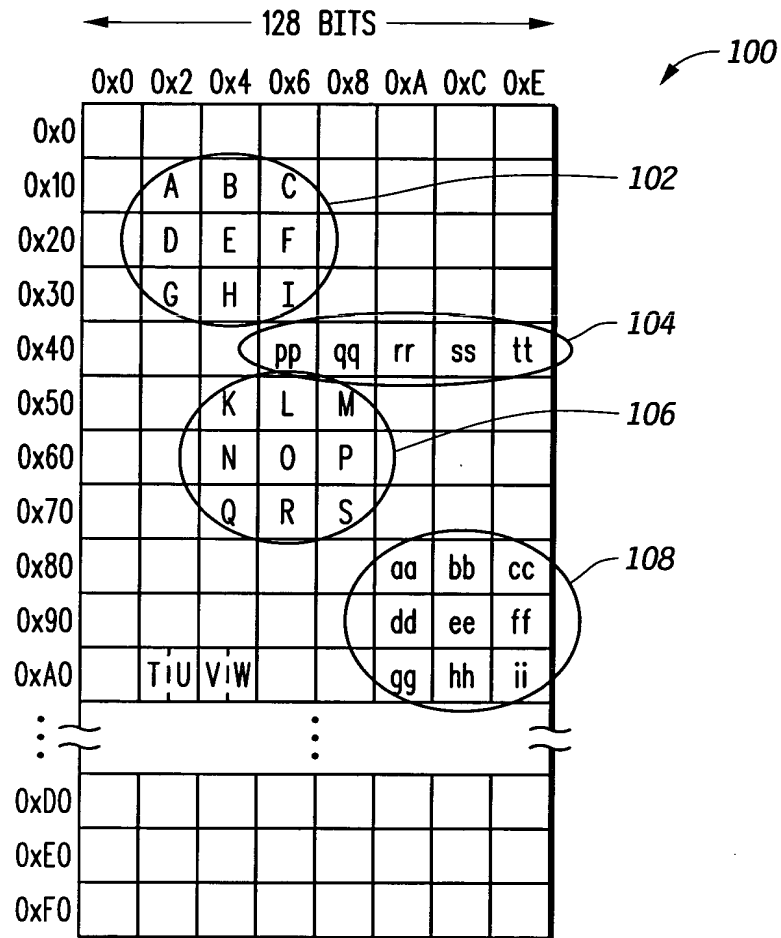
*FIG. 10*

ststrmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB

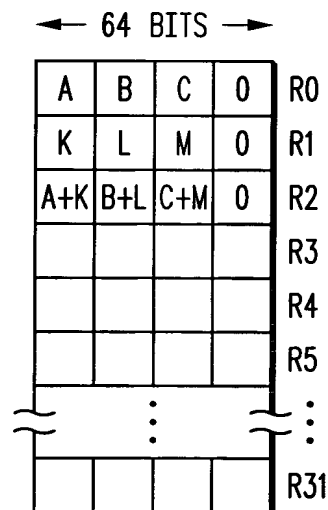


*FIG. 11*

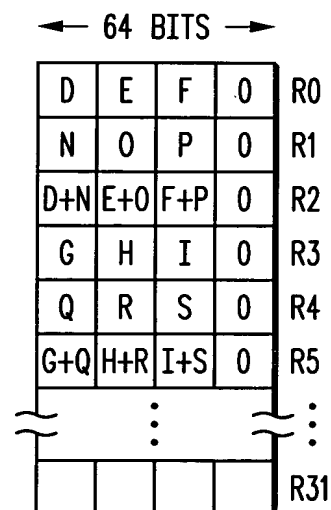
5/12



**FIG. 12**

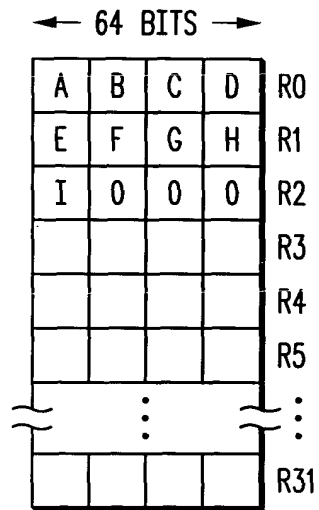


**FIG. 13**

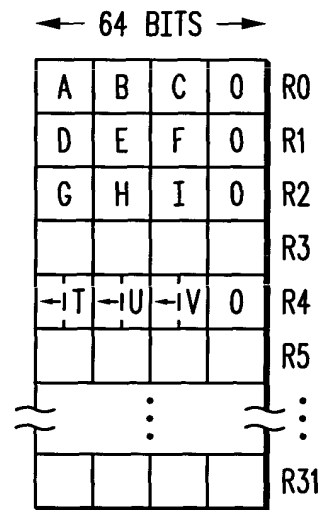


**FIG. 14**

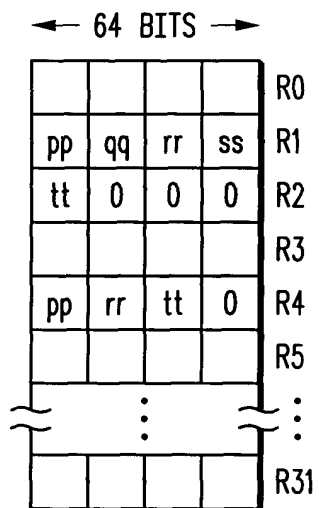
6/12



**FIG. 15**



**FIG. 16**



**FIG. 17**

7/12

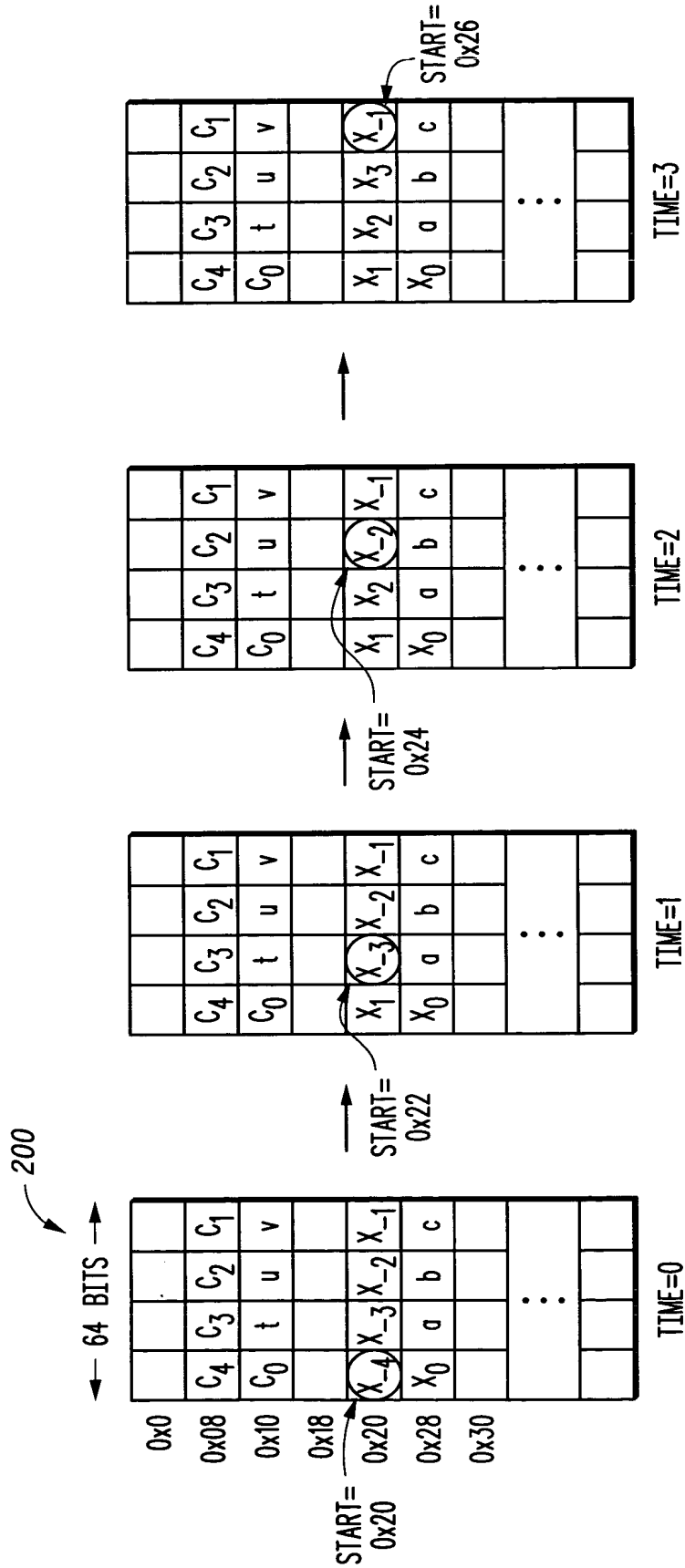


FIG. 18

8/12

← 64 BITS →

0x08				R1
0x20				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-4}$	$X_{-3}$	$X_{-2}$	$X_{-1}$	R8
$X_0$	0	0	0	R9
$C_4 \cdot X_{-4} + C_3 \cdot X_{-3} + C_2 \cdot X_{-2} + C_1 \cdot X_{-1}$				R10
$C_0 \cdot X_0 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 19*

← 64 BITS →

0x22				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-3}$	$X_{-2}$	$X_{-1}$	$X_0$	R8
$X_1$	0	0	0	R9
$C_4 \cdot X_{-3} + C_3 \cdot X_{-2} + C_2 \cdot X_{-1} + C_1 \cdot X_0$				R10
$C_0 \cdot X_1 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 20*

← 64 BITS →

0x24				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-2}$	$X_{-1}$	$X_0$	$X_1$	R8
$X_2$	0	0	0	R9
$C_4 \cdot X_{-2} + C_3 \cdot X_{-1} + C_2 \cdot X_0 + C_1 \cdot X_1$				R10
$C_0 \cdot X_2 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 21*

← 64 BITS →

0x26				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-1}$	$X_0$	$X_1$	$X_2$	R8
$X_3$	0	0	0	R9
$C_4 \cdot X_{-1} + C_3 \cdot X_0 + C_2 \cdot X_1 + C_1 \cdot X_2$				R10
$C_0 \cdot X_3 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 22*



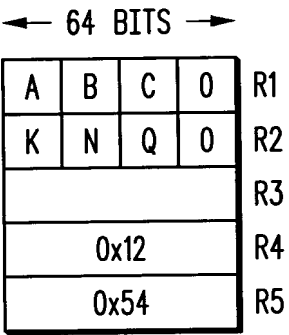


FIG. 23

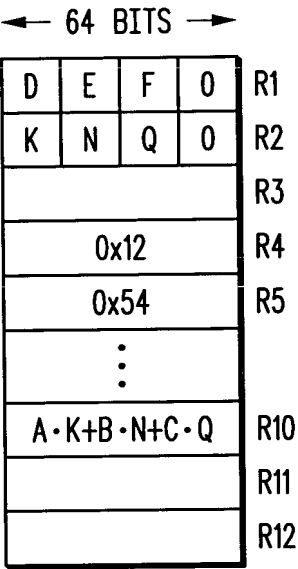


FIG. 24

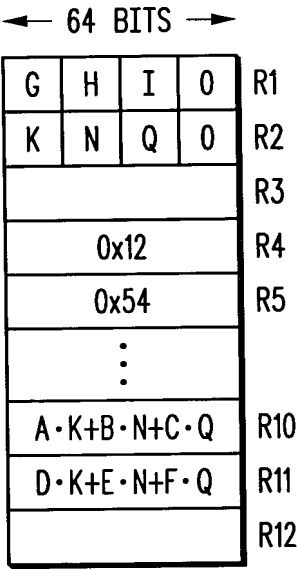


FIG. 25

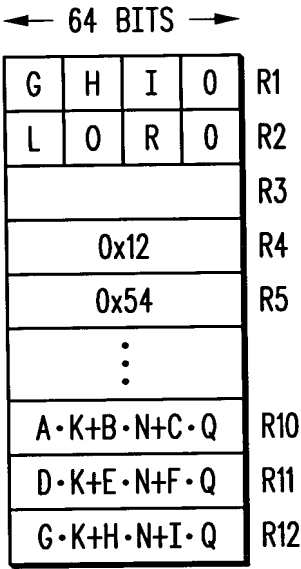
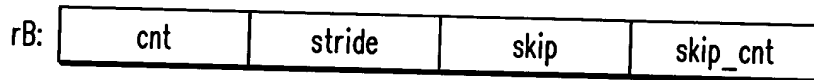
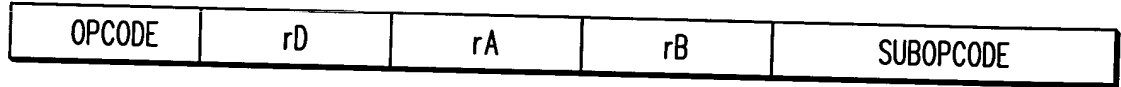


FIG. 26

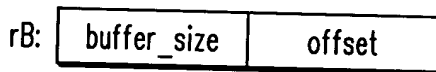
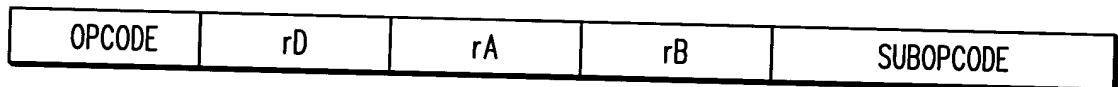
10/12

lmvex\_skip\_once.[s/u].[ms].[ds] rD, rA, rB

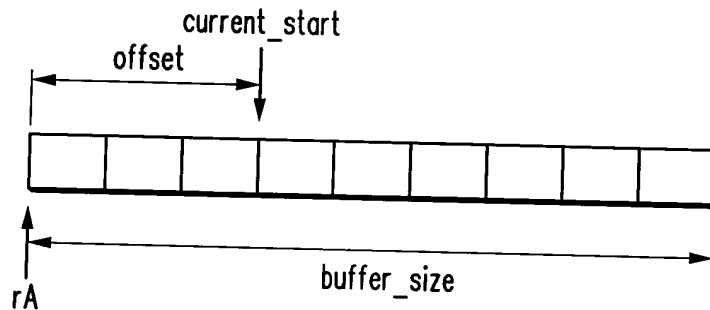


**FIG. 27**

lmvex\_cb.[s/u].[ms].[ds] rD, rA, rB

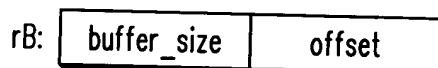
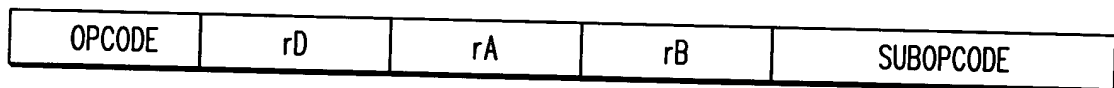


**FIG. 28**



**FIG. 29**

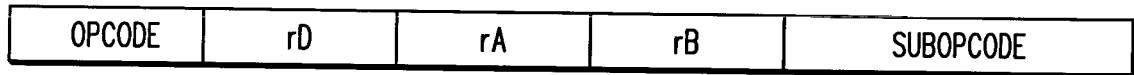
lstrmvex\_cb.[s/u].[ms].[ds] rD, rA, rB



**FIG. 30**

11/12

lmvex\_fft.[s/u].[ms].[ds] rD, rA, rB



rB: radix

*FIG. 31*

stmvex\_fft.[s/u].[ms].[ss] rS, rA, rB



rB: radix

*FIG. 32*

lmstrmvex\_fft.[s/u].[ms].[ds] rD, rA, rB



rB: radix

*FIG. 33*

12/12

	0x0				0xE				300
0x0									
0x10				X <sub>0</sub>	X <sub>1</sub>	X <sub>2</sub>	X <sub>3</sub>	X <sub>4</sub>	
0x20	X <sub>5</sub>	X <sub>6</sub>	X <sub>7</sub>						
0x30									
0x40			Y <sub>0</sub>	Y <sub>4</sub>	Y <sub>6</sub>	Y <sub>2</sub>	Y <sub>1</sub>	Y <sub>5</sub>	
0x50	Y <sub>3</sub>	Y <sub>7</sub>							
0x60									

*FIG. 34*

X <sub>0</sub>	X <sub>4</sub>	X <sub>6</sub>	X <sub>2</sub>	R1
X <sub>1</sub>	X <sub>5</sub>	X <sub>3</sub>	X <sub>7</sub>	R2
				R3
Y <sub>0</sub>	Y <sub>1</sub>	Y <sub>2</sub>	Y <sub>3</sub>	R4
Y <sub>4</sub>	Y <sub>5</sub>	Y <sub>6</sub>	Y <sub>7</sub>	R5

*FIG. 35*